

CLAIMS

1. A switch characterized by the functional integration of current and/or voltage measuring devices on-board of the switch itself.
2. The switch of claim 1, characterized in that the functionally integrated
5 current and/or voltage measuring devices provide primary current and voltage representative signals to an on-board electronic device to realize the measure, process, and protection functions as a whole.
3. The switch of claim 1, characterized by the physical integration of current and/or voltage measuring devices within the switch.
- 10 4. The switch of claim 3, characterized in that the physical integration of current and/or voltage measuring device is realized by integration of said device in the pole itself.
5. The switch of claim 3, characterized in that the physical integration of current and/or voltage measuring device is realized by integration of said
15 device on the pole contact arm.
6. The switch according to any of the previous claims, characterized in that the current measuring device is realized by a Rogowsky coil.
7. The switch according to any of the claims from 1 to 5, characterized in that the current measuring device is realized by an array of Hall effect current
20 sensors.
8. The switch according to any of the previous claims, characterized in that the voltage measuring device is realized by a capacitive coupling using the current measuring device itself as capacitive electrode.